

| ADPGPPase Subunit | Forward primer                                  | Reverse primer                                  | Restriction endonuclease |
|-------------------|---|---|--------------------------|
| Large (LS1)       | GTTCAATTTGGGGA<br>GAGTGAGCAC<br>(Seq. ID No. 1) | GGGCAGCAGAAT<br>TGTA CTGTGTC<br>(Seq. ID No. 2) | Hinf I                   |
| Large (LS2)       | CTATTGGTGGTTG<br>TTACCGGGT<br>(Seq. ID No. 3)   | CACTGTTCCAATA<br>TCCTCCCAG<br>(Seq. ID No. 4)   | Hinf I                   |
| Large (LS3)       | GCATATTGCTCGT<br>GCGTACAAC<br>(Seq. ID No. 5)   | CTTTTCGCTGAAG<br>GACATGACC<br>(Seq. ID No. 6)   | -                        |
| Small             | TTTCGTCTTCTCA<br>TCTCGCCGGA<br>(Seq. ID No. 7)  | GGCGATTTAGAG<br>AGGCAGAGTTG<br>(Seq. ID No. 8)  | RsaI                     |

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Page 13, please delete the last paragraph and rewrite as follows:

Table 6 is the nucleotide sequence of ADPGPPase LS1 (ADPGlucose pyrophosphorylase, large subunit 1) from *L. hirsutum* (Seq. ID No. 9). Table 7 is the derived amino acid sequence for ADPGPPase LS1 (ADPGlucose pyrophosphorylase, large subunit 1) from *L. hirsutum* (Seq. ID No. 10).

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Page 14, please delete all paragraphs and rewrite as follows:

Table 6: Nucleotide sequence of ADPGPPase LS1 (ADPGlucose pyrophosphorylase, large subunit 1) from *L. hirsutum* (Seq. ID No. 9).

1 ATGAAATCGA CGGTTTCATTT GGGGAGAGTG AGCACTGGTG GCTTTAACAA  
51 TGGAGAGAAG GAGATTTTTG GGGAGAAGAT GAGAGGGGAGT TTGAACAACA  
101 ATCTCAGGAT TAATCAGTTG TCGAAAAGTT TGAAACTTGA GAAGAAGGAG  
151 AAGAAGATTA AACCTGGGGT TGCTTACTCT GTGATCACTA CTGAAAATGA  
201 CACAGAGACT GTGTTCGTAG ATATGCCACG TCTTGAGAGA CGCCGGGCAA  
251 ATCCCAAGGA TGTGGCTGCA GTCATATTAG GAGGAGGCGA AGGGACCAAG  
301 TTATTCCCAC TTACAAGTAG AACTGCAACC CCTGCTGTTC CGGTTGGAGG  
351 ATGCTACAGG CTCATAGACA TCCCGATGAG CAACTGTATC AACAGTGCTA  
401 TTAACAAGAT TTTTGTGCTG ACACAGTACA ATTCTGCTGC CCTGAATCGT  
451 CACATTGCTC GAACGTATTT TGGCAATGGT GTGAGCTTTG GAGATGGATT  
501 TGTCGAGGTA CTAGCTGCAA CTCAGACACC TGGGGAAGCA GGAAAAAAT  
551 GGTTC AAGG AACAGCAGAT GCTGTCAGAA AATTTATATG GGTTTTGTAG  
601 GACGCTAAGA ACAAGAATAT TGAAAATATC CTTGTATTAT CTGGGGATCA  
651 TCTTTATAGG ATGGATTATA TGGAGTTGGT GCAGAACCAT ATTGACAGAA  
701 ATGCTGATAT TACTCTTTCA TGTGCACCAG CTGAGGACAG CCGAGCATCA  
751 GATTTTGGGC TGGTCAAGAT TGACAGCAGA GGCAGAGTTG TCCAGTTTGC  
801 TGAAAACCA AAAGGTTTTG AGCTTAAAGC AATGCAAGTA GATACTACTC  
851 TTGTTGGATT ATCTCCACAA GATGCGAAGA AATCCCCTTA TATTGCTTCA  
901 ATGGGAGTTT ATGTTTTCAA GACAGATGTA TTGCTGAAGC TCTTGAAATG  
951 GAGCTACCCC ACTTCTAATG ATTTTGGCTC TGAAATTATA CCAGCAGCTA  
1001 TTGATGATTA CAATGTCCAA GCATACATTT TCAAAGACTA TTGGGAGGAC  
1051 ATTGGAACAA TTAAATCTTT CTATAATGCT AGCTTGGCGC TCACACAAGA  
1101 GTTTCAGAG TTCCAATTTT ATGATCCAAA AACACCTTTT TACACATCTC  
1151 CTAGGTTTCT TCCACCAACC AAGATAGACA ATTGCAAGAT TAAGGATGCC  
1201 ATAATTTCTC ATGGATGTTT CTTGCGAGAT TGCTCTGTGG AACACTCCAT  
1251 AGTGGGTGAA AGATCACGCT TAGACTGTGG TGTTGAACTG AAGGATACTT  
1301 TCATGATGGG AGCAGACTAC TACCAAACAG AATCTGAGAT TGCCTCCCTG  
1351 TTAGCAGAGG GGAAAGTACC GATTGGGATT GGGGAAAATA  
CAAAAATAAG  
1401 GAAATGTATC ATTGACAAGA ACGCAAAGAT AGGAAAAAAT GTTTCAATCA  
1451 TTAATAAAGA TGGTGTTCAA GAGGCAGACC GACCAGAGGA AGGATTCTAC  
1501 ATACGATCAG GGATAACCAT TATATCAGAG AAAGCCACAA TTAGAGATGG  
1551 AACAGTTATA TGA

Table 7: Derived amino acid sequence for ADPGPPase LS1 from *L. hirsutum* (Seq. ID No. 10).

MKSTVHLGRVSTGGFNNGEKEIFGEKMRGSLNNNLRLINQL  
SKSLKLEKKEKKIKPGVAYS VITTENDTETVFVDM PRLERRRAN  
PKDVAAVILGGGEGTKLFPLTSRTATPAVPVGGCYRLIDIPMSNC  
INSAINKIFVLTQYNSAALNRHIARTYFGNGVSFGDGFVEVLAAT  
QTPGEAGKKWFQGTADAVRKFIWVFEDAKNKN IENILVLSGDHL  
YRMDYMELVQNHIDRNADITLSCAPAEDSRASDFGLVKIDSRGR  
VVQFAEKPKGFELKAMQVD TTLVGLSPQDAKKSPYIASMGVYV  
FKTDVLLKLLKWSYPTSNDFGSEIIPAAID DYNVQAYIFKDYWED  
IGTIKSFYNASLALTQEFPEFQFYDPKTPFYTS PRFLPPTKIDNCKI  
KDAIISHGCFLRDCSVEHSIVGERSRLDCGVELKDTFMMGADYY  
QTESEIASLLAEGKVP IGI GENTKIRKCIIDKNAKIGKNVSIINKDG